

Wireless Level Sensor User Manual

1.Defination



* Gateway self prepared

Wifi: Between sensor and router(max 50m no obstacle)

Touch Key (Ⓢ): Press 5 seconds for WiFi connection

Network mode: Zigbee 3.0

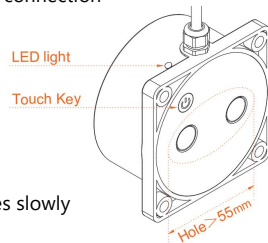
LED: Zigbee status

Zigbee Config: Led light flashes rapidly

Zigbee Connected: Led light on

Zigbee Not Connected: Led light flashes slowly

Adaptor: AC 110V~240V



Sensor power supply: ≤100mA@ 5V DC

Level Range: 0.1m~4m

Accuracy: ± 0.02m

Operation Temperature: -20℃~70℃

Protection: IP65

2.Connection

1. Power on the AC/DC ADAPTOR first, and then power on the sensor, the sensor's led light flashes.
2. Scan code to download "TUYA Smart APP" or "Smart Life APP" on mobile device.

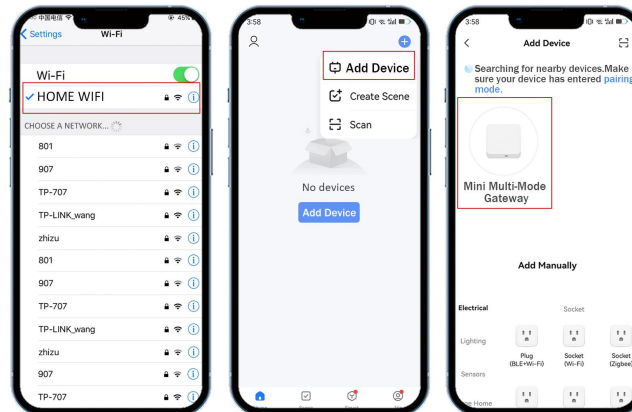


3.Network Reset

Press and hold the button (Ⓢ) for 5s, the led light flashes rapidly, then release the button, the network reset, the device connect to the network automatically.

4.Connecting Sensors to APP.

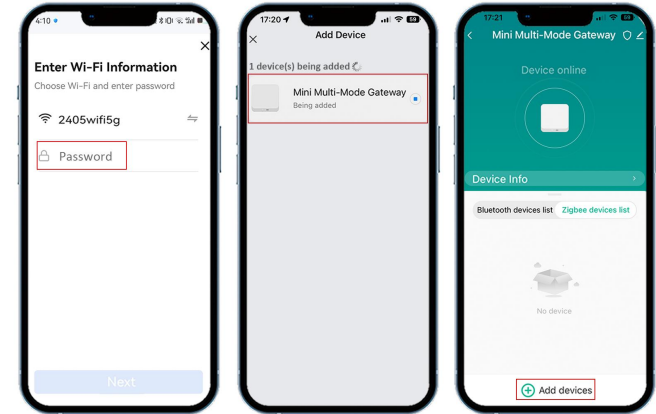
Turn on the WiFi and Bluetooth of your phone, enter the app and add device.



01-Turn on mobile
WiFi & Bluetooth

02-Add device

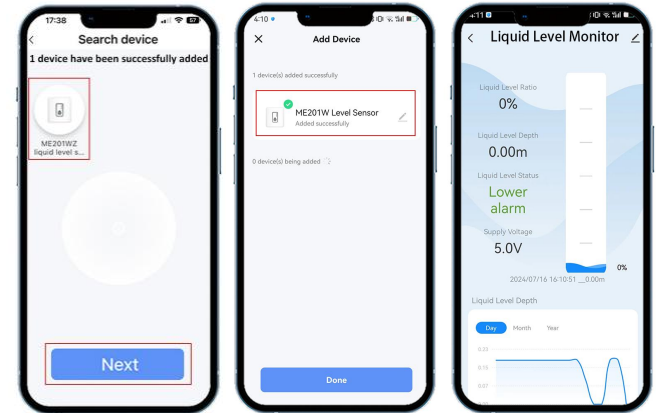
03-Connect
Gateway



04-Enter WiFi
password

05-Click on the
Gateway

06-Add level
sensor



07-Add level
sensor

08-Add level
sensor

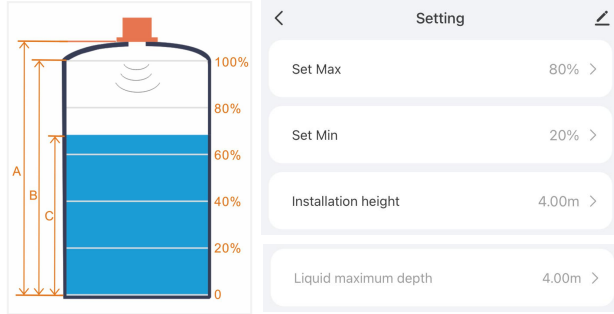
09-Check level
sensor data

*Note:

1. Zigbee 3.0 can only be Tuya Gateway;
2. When adding a device, make sure that the sensor and the phone are connected to the same WiFi. After the setting is complete, the indicator must work under steady light. If the phone cannot find the device or fails to connect to the device, hold down the button for 5s until the indicator flashes to add the device again.

3.Setting

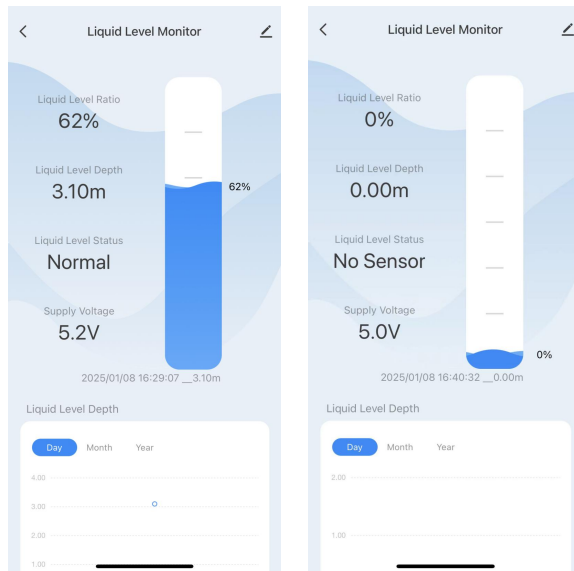
1. **Installation height:** Set the distance from sensor to tank bottom
(**A**);
2. **Liquid maximum depth:** Maximum height of liquid in tank (**B**);
3. **Set Max:** Set Max for high level alarm (**Actual liquid level value C**);
4. **Set Min:** Set Min for low level alarm;



e.g.

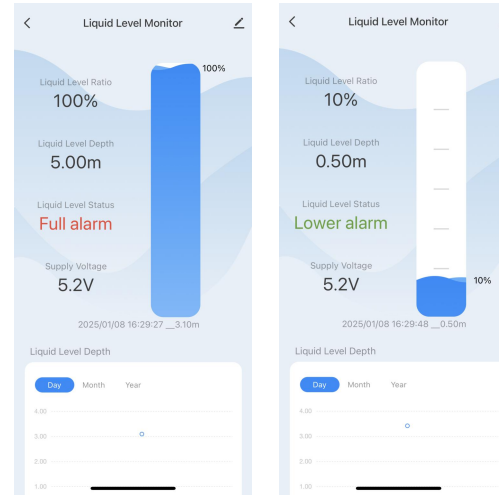
Installation height, A=4m; Liquid maximum depth, B=3m;
Actual liquid level value, C=2m; Set Max=60%, Set Min=20%,
Level Status: **Full alarm** ($C/B \times 100\% = 2/3 \times 100\% = 67\%$)

4.Level Status



Normal

No Sensor



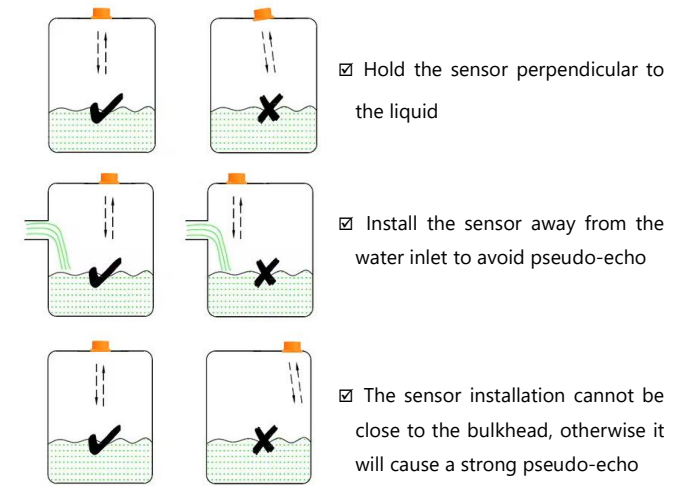
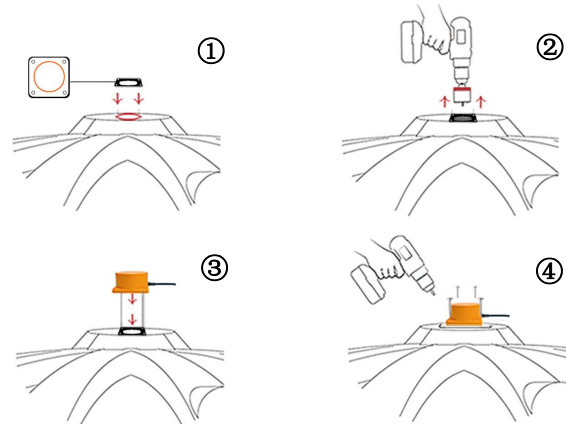
Full Alarm

Low Alarm

5.Installation

1. Remove the release paper from the gasket, and attach the gasket to the center of the tank where the hole will be drilled.
2. Drill a hole right in the middle of the tank with a diameter of >55mm;
3. Place the sensor over the gasket, Keeping it aligned with the screw holes. unobstructed;
4. Fasten the sensor with a self-tapping screw.

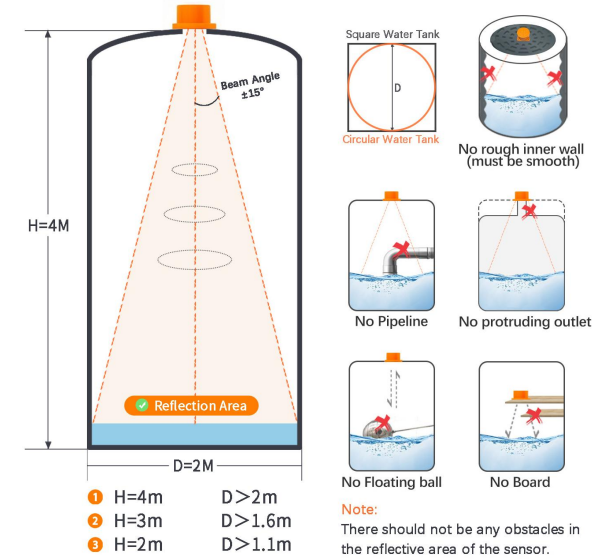
***Note:** If the mounting surface is curved, it is sufficient to fix the sensor with screws just, prevent the sensor from being stressed; when the data is abnormal, the screws must be loosened.



☑ Hold the sensor perpendicular to the liquid

☑ Install the sensor away from the water inlet to avoid pseudo-echo

☑ The sensor installation cannot be close to the bulkhead, otherwise it will cause a strong pseudo-echo



- 1 H=4m D>2m
- 2 H=3m D>1.6m
- 3 H=2m D>1.1m

Note: There should not be any obstacles in the reflective area of the sensor.